

Celebrating Children & Our Natural World Yesterday, Today & Tomorrow



A MESSAGE FROM GOVERNOR O'MALLEY



Welcome to the 2010 Maryland Bay Game, the 13^{th} edition of this fun summer activity book that celebrates you and our natural world.

This year Ol' Blue and his new friend, Professor B.G. Frogswamp, take us on a trip back in time to see what life was like for kids in colonial times, before TV, video games, phones or even electricity. We can learn a lot about how to have fun from Maryland's first young citizens, who played outdoors and made up games — often using things found in nature!

Today children who spend more time outdoors are healthier, happier and even do better in school. And having fun outdoors inspires us to take better care of our planet.

As you enjoy this year's Bay Game, I hope you will be encouraged to spend more time exploring our natural world. And while you're fishing, hiking, camping or just playing in your backyard, I hope you will think about what you can do to help protect our land, water, fish and wildlife.

Have a great, safe summer!

Martin O'Malley Governor



The Bay Game is an activity book created especially for Maryland kids. The games, puzzles, coloring pages and activities inside are for playing and learning anytime!

While on a road trip, be sure to play Bay Bingo and the Chesapeake Bay Trust License Plate Game.

The Bay Game inspires you to be an artist or an explorer, learn fun facts and get outside and play. Let these symbols be your guide!



Play Explore Learn Color

And to keep the fun going after the game is finished, keep a nature journal; write and draw about your outdoor experiences, paste in photos and keep a list of outdoor adventures you want to have in the future.

GOOD LUCK & HAVE FUN!



John R. Griffin, Secretary

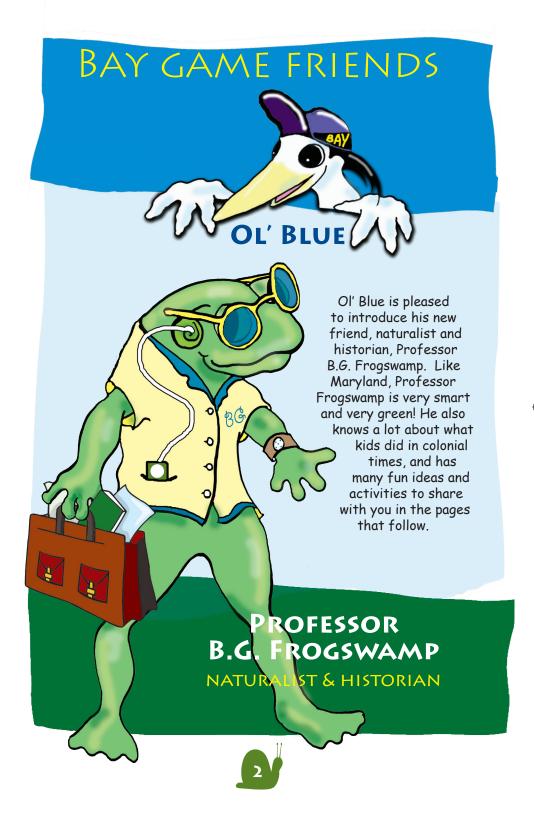
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MARYLAND CHILDREN'S OUTDOOR BILL OF RIGHTS

Every Maryland child shall have the opportunity to...

Discover and connect with their natural world.

Play and learn outdoors.

Splash and swim in the water.

Camp under the stars.

Follow a trail.

Catch a fish.

Watch wildlife.

Explore wild places close to home.

Celebrate their culture & heritage.

Share nature with a great mentor, teacher or

parent.





A NEW WORLD OF ADVENTURE

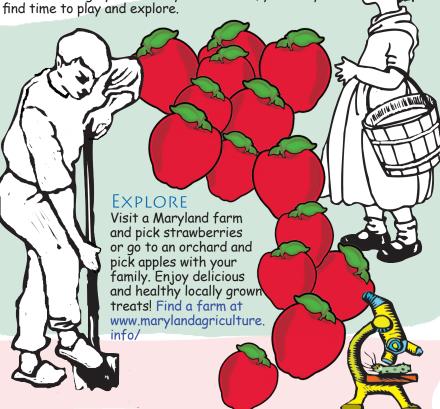
Imagine it is March 1634. You and your family arrive at a Chesapeake Bay island after a 4-month voyage from England. Your new home will eventually become St. Clement's Island.

Everyone helps out in the New World. If you're a girl, you probably help cook and bake, dye and weave wool, churn butter, and clean house. If you're a boy, you help plow, hoe and harvest crops, chop firewood, and learn to use a musket to hunt small game.

Even the youngest colonial children had chores, like feeding chickens, gathering eggs and harvesting vegetables.

But even though you are busy with chores, you always find time to play and explore.

YESTERDAY



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Fun with Nature's gifts

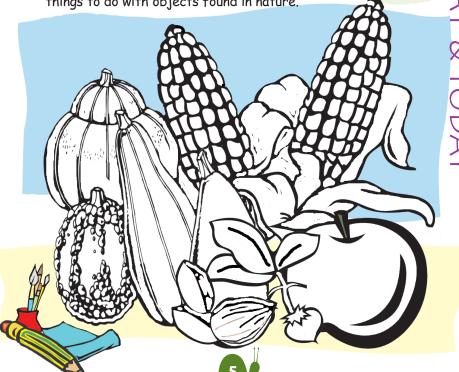


Colonial kids used all sorts of things found in nature as toys and games, instead of store-bought things we have today. You can too!

PLAY

- Make a doll's head from a dried apple poke features with a toothpick.
- Cut corn cobs into pieces to use as building blocks.
- Collect shells to use as dishes for dolls, pretty rocks to play hopscotch.
- Tie wildflowers or dandelions together for a necklace or bracelet.
- Create art with pressed flowers glued to recycled paper.
- Cut walnuts in half, paint and use as holiday ornaments.
- Hollow out a gourd and blow your own horn.

 Challenge your friends to see who can think of the most fun things to do with objects found in nature.







COLONIAL PLAY TIME



Colonial kids spent lots of time in nature and played games using their imaginations!

WATCH BIRDS

Children were curious about nature when they came to the New World, and discovered new animals, birds, trees and plants.

You can attract birds to your backyard. Place mixed bird seed in a spot in your yard or on your balcony. A porch railing or outside table works well. It may take a few days, but in time birds will flock to your special place!

BE AN ANIMAL

Pretend to be an animal, and have your friends guess what you are. Be sure to give lots of hints: Make creature sounds. Walk, crawl or run in a certain way. Pretend to eat certain foods. Act brave or shy. The first person to guess the right answer gets to be the next animal!





What's in a name?

Assateague State Park is named for Assateague Indians and is Maryland's only park that sits on the Atlantic Ocean.

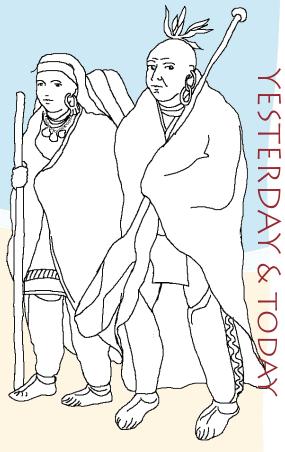
The **Patapsco** River is named for an Algonquin word meaning backwater or tide covered with froth. The river provided food for the Susquehannock and

the Piscataway tribes, such as herring, shad, rockfish, clams, oysters, shrimp and crabs.

The Patuxent River was first named Pawtuxunt on Captain John Smith's 1608 map.

A Maryland city, river and state park all share the name Pocomoke; the Pocomokes were the first watermen, hunters, farmers and trappers on the Chesapeake Bay waters and wetlands.

The **Chesapeake Bay** gets its name from an Algonquian word believed to mean great shellfish bay.





EXPLORE

Check out highway signs and a map to identify other rivers, towns and parks that got their names from Native Americans.



HARRIET TUBMAN WORD SEARCH



Araminta Harriet Greene Tubman devoted her life to fighting slavery and championing the rights of women. Known as the "Moses of her people," she was born a slave in Maryland in 1820.

In 1844, Harriet married John Tubman, who was a free man. She escaped slavery in 1849 and traveled north. She then became a conductor for the Underground Railroad and helped slaves flee to northern states and Canada.

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BYWAY · CABIN · CONDUCTOR · COURTHOUSE EASTERN SHORE · ENSLAVED · ESCAPE · FREE BLACKS · FREEDOM · FUGITIVES · HARRIET TUBMAN · MARKET MARYLAND · NORTH · RAILROAD · RESCUE · SHELTER SLAVES · SOLD · SOUTH · UNDERGROUND





FARMERS

THE FIRST ENVIRONMENTALISTS

Farmers have always cared for their land and grown their own food. Long before the term "environmentalist" was coined, farmers worked to prevent soil erosion on their farms and keep crop fields fertile to provide food for all of us to eat.

George Washington (1732-1799) worked hard to improve the soil at his Mt. Vernon farm in Virginia. He became one of the most progressive farmers of his day, experimenting with crop rotation, composting and soil conservation to keep the soil healthy.

Thomas Jefferson (1743-1826), our third president, also was a farmer, scientist and inventor. Jefferson rotated his crops, farmed on the contour of hills to reduce soil erosion, and planted cover crops to protect and enrich the soil.

Farmers today have adapted and improved the techniques Washington and Jefferson used to protect our soil and the Chesapeake Bay. Maryland farmers have planted thousands of trees on their farms, installed hi-tech manure handling systems, planted cover crops on their fields and created hundreds of acres of wetlands. These are ways farmers prevent soil and pollution from coming off the land. People also grow their own gardens and buy locally-grown fruits and vegetables to serve their families!

SPONSORED BY

WORD JUMBLE

D F O O

T | I | E | L | F | E | R

COMTOSP

W L D I E L F I

F R M A R E

What do you get if you cross George Washington with cattle feed?

The _ _ _ _ of our country.

Jumble answers: food, fertile, compost, wildlife, farmer Riddle answer: The fodder of our country.







CHESAPEAKE BAY GRASSES

Bay grasses improve water quality in the Chesapeake Bay and provide food and shelter for birds, fish and shellfish. There are 30 times more crabs in areas of the Bay with healthy bay grasses than in places without them!

EXPLORE

Grow bay grasses in your classroom, study

stroom, study
them as they grow,
and plant them in
the Chesapeake
Bay. Learn how
at www.dnr.
maryland.gov/
bay/sav/bgic



MATCH

Connect the Bay creature with its description.

Blue crabs 📮

TODAY

- Aquatic insects
 - Bay grasses
 - Fish 📮
- Scaly swimmers that eat algae and underwater plants in the Bay
- Aquatic plants that help keep the Bay healthy
- Animals with claws and hard shells that live on the bottom of the Bay
- ☐ Bugs that spend at least part of their lives in the waters of the Bay

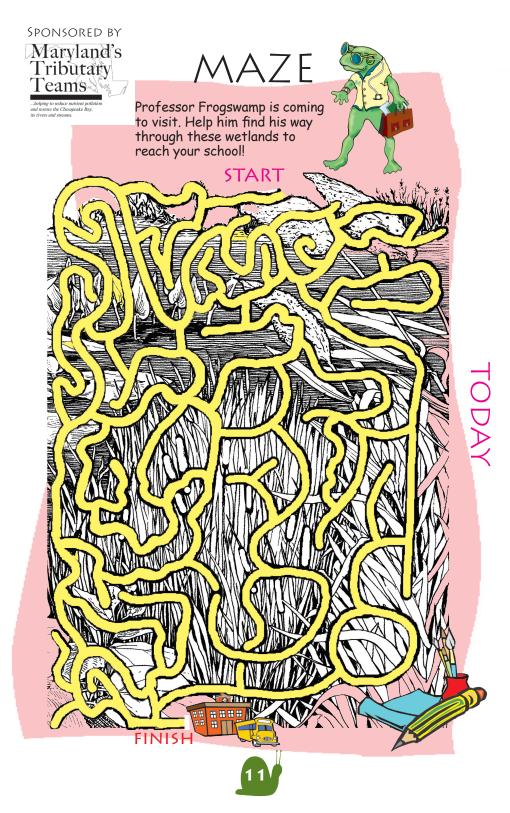


What is a wetland?

Wetlands are marshes or swamps that provide a home for many plants and animals such as frogs, egrets and turtles. Wetland areas are very important to the health of our waterways and the Chesapeake Bay because they improve water quality by filtering out excess nutrients and other pollutants.

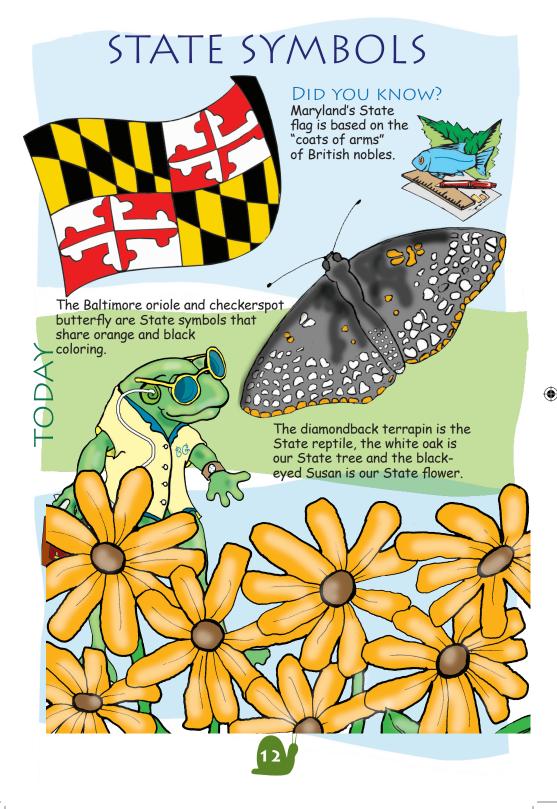




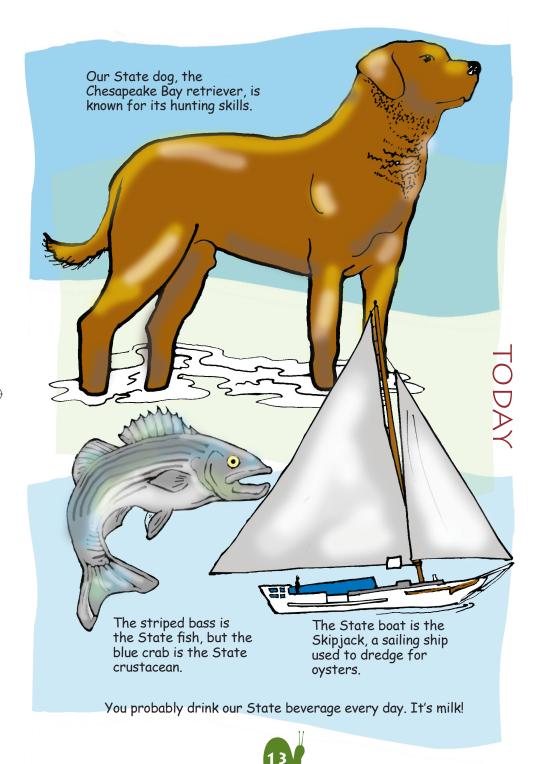


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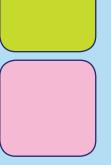
HELP RESTORE THE

DIRECTIONS: Take turns flipping a coin
HEADS move ahead 2 spaces

TAILS move ahead 1 space

The first to reach the end is Smart, Green & Growing!

START HERE



THROW
CHEMICALS IN
THE TRASH
MOVE BACK
2 SPACES

PICK UP
AFTER YOUR
PET
ADVANCE
3 SPACES



EAT
LOCALLY
GROWN
FRUIT
ADVANCE
2 SPACES



RECYCLE ADVANCE 3 SPACES USE TOO MUCH FERTILIZER MOVE BACK 3 SPACES

14



CHESAPEAKE BAY

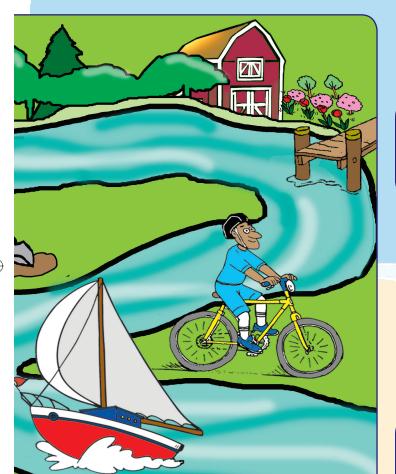


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LEARN MORE AT
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PLANT A RAIN GARDEN ADVANCE 1 SPACE



BIKE OR TAKE
THE BUS
ADVANCE
2 SPACES

LEAVE THE FAUCET RUNNING MOVE BACK 3 SPACES TURN OFF THE LIGHTS ADVANCE 2 SPACES 15

PLANT A TREE ADVANCE 3 SPACES











BAY GAME BINGO

Here's how to play

When you see one of the items below, draw a circle around it.

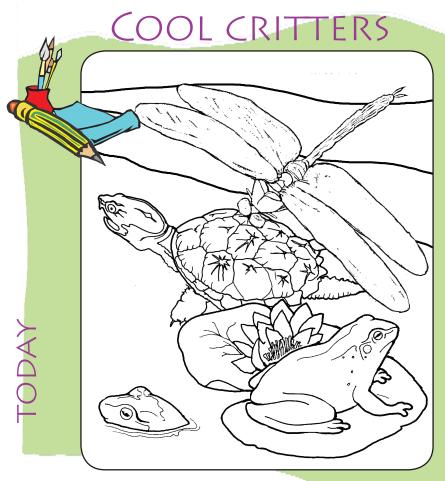
Complete a row across, up and down, or diagonally, or
find everything on your card.



To learn more about these bingo items and how many of them connect to the Bay, visit the Maryland Bay Game website at www.dnr.maryland.gov/baygame







EXPLORE!

Visit a pond or stream near your house with an adult. Take a pad of paper to take notes and pretend to be a biologist.

Do you see dragonfly babies or other larvae? How about snails, leeches or worms? Is the water clear? What's on the bottom of the stream or pond? Are there rocks, gravel, sand or mud? What types of plants are nearby?

You have just created a stream profile, which helps us learn whether the water is clean and safe for critters and you!

Learn more at www.streamhealth.maryland.gov





KNOW YOUR SHELLFISH Match the shellfish to its name. Bay Scallop ____ Blue Crab Horseshoe Crab Eastern Oyster ____ Hard-shell Clam

Answers: Bay Scallop D, Blue Crab B, Horseshoe Crab C, Eastern Oyster E, Hard-shell Clam A

favorite restaurant or seafood market!

EXPLORE!



Look for these sea creatures when you're at the beach. You'll also find them on the menu at your

EXPERIMENT WITH NATURE!

Dirt, rocks, sand and recycled stuff are great tools for nature experiments!

MAKE A TOAD SHELTER

Turn a old clay pot, margarine tub, or any other durable container into a backyard observatory for little croakers. Coffee cans can also be used. Once you make sure there are no sharp edges you



can paint the can any way you like using outdoor paint. Sealing it with acrylic spray will make it last longer.

Once your toad house is finished, find a moist and shady spot in your garden. Lay the pot on its side and bury half of it, filling the inside partially so visiting frogs or toads will be sitting on dirt.

WATCH A BEAN GROW

Plants need water to live. They absorb water from the air through their leaves, and suck water up through their stems. To see beans grow, here is what you need: water, potting soil, clear plastic cups or glass jars and 3 beans.

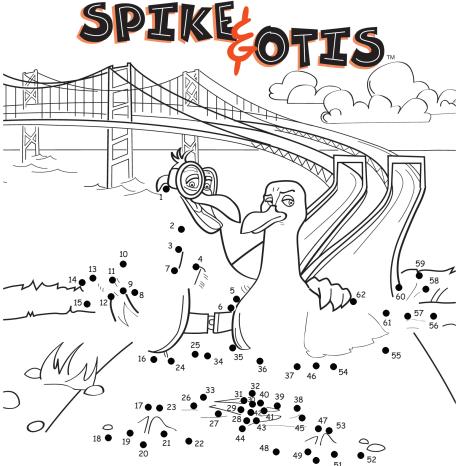
- Fill the container with 2 inches of water and drop two beans in the cup of water.
- · Leave the beans to soak overnight.
- The following day, drain the water from the cup and remove beans.
- Fill container half way with soil, place a bean inside, and fill with more soil.
- Place container in a well-lit and warm spot and be sure to water the beans every day.

Watch closely and you will see how quickly the plants grow

almost minute by minute!







When crossing the Bay Bridge, 50

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Visit BAYBRIDGE.COM or call 1-877-BAYSPAN (1-877-229-7726) for 24/7 traffic conditions.

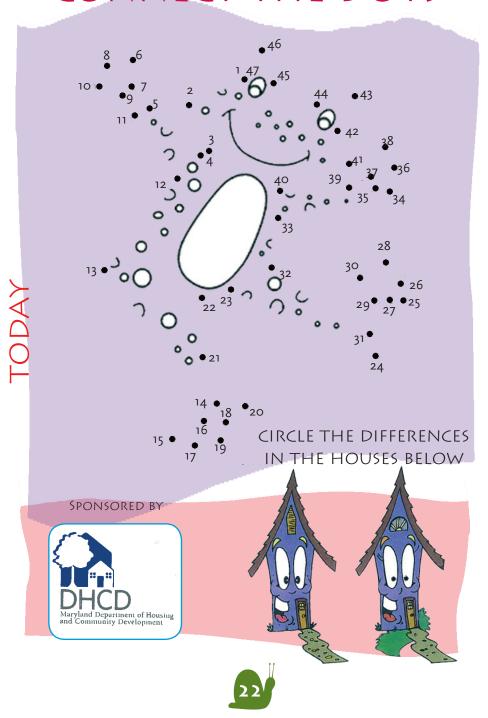


Transportation **Authority**





CONNECT THE DOTS









CAMPING FUN

Have you ever slept outdoors? Camping is fun for kids and adults, and Maryland State Parks are great places to camp with family, friends and scouts. AND you can enjoy every one of your outdoor rights while there! Check them out at www.dnr.maryland.gov/publiclands

Get wet and splash around in a lake or

river. Canoe or

kayak. Look for birds and wildlife. Go on a scavenger hunt. Learn how to read maps and a compass. Lie down on a blanket and watch the

clouds go by or bring a star chart and find constellations.

TODAY

On Saturday, June 26, you can join people across the county for the Great American Backyard Campout. From your balcony to your backyard to a State or national park, no



Park Quest

Gather your family together for an outdoor adventure! Park Quest 2010 offers teams a chance to compete in 10 quests at 24 beautiful State Parks. Families can kayak, hike and bike and win prizes. Learn more at www.dnr.maryland.gov/parkquest







Find the hidden objects and circle them, then color in the picture!

PENCIL, BANANA, TURTLE, BUTTERFLY, PAINTBRUSH, FISH, COMB, EEL, SEAHORSE, MICROWAVE

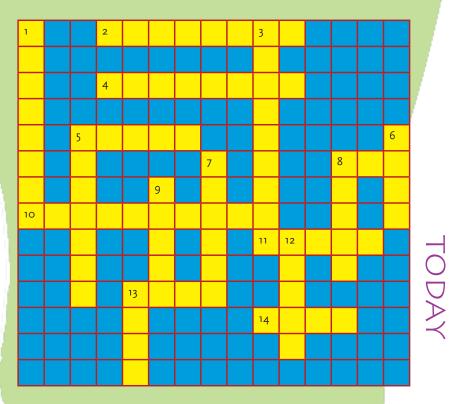








Graphics Plant #140



ACROSS

- 2. Non-pet animals
- 4. Not inside
- 5. Small boat using paddles8. Go down hill when it snows
- 10. Built at the beach
- 11. These shine at night
- 13. You can plant this14. It lives in 9 down

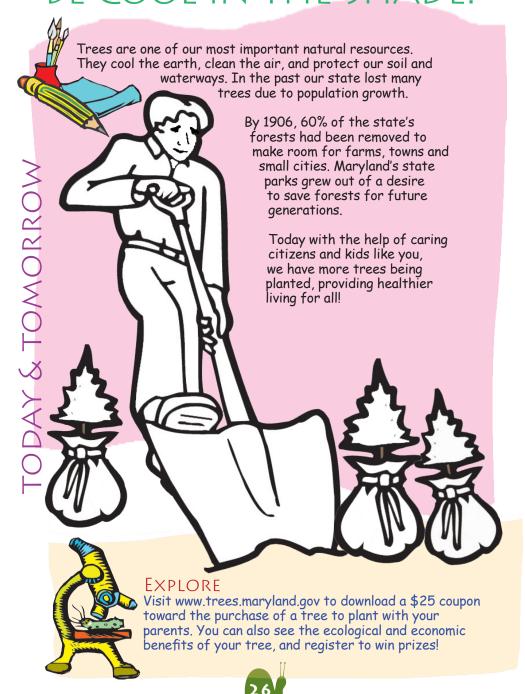
DOWN

- 1. People who lead your class
- Bugs that light up
- 5. Attach together
- 6. Walk in the woods
- 7. Children in
- 8. Tell this around a campfire
- 9. It's in the Bay
- 12. A place to hike
- 13. Camping shelter

DOWN: 7. TEACHERS 3. FIREFLIES 5. CONNECT 6. HIKE 7. NATURE 8. STORY 9. WATER 12. TRAIL 13. TENT ANSWERS ACROSS: 2. WILDLIFE 4. OUTDOORS 5. CANDE 8. SKI 10. SANDCASTLE 11. STARS 13. TREE 14. FISH



BE COOL IN THE SHADE!





WORD SCRAMBLE



The Chesapeake Bay is Maryland's greatest economic and environmental treasure and you can help keep it healthy!

Unscramble the words and use the letters in the water drops to discover what helps the Chesapeake Bay thrive.

1. brac
2. ellutop
3. noeca
4. rai
5. nerho
6. atswe 0
7. yab <u>U</u>
8. rstah <u></u>
9. eret
10. ryelcec

Maryland Department of the Environment 1800 Washington Boulevard Baltimore MD 21230 www.mde.state.md.us 800-633-6101

What is the answer?



Answer: clean water

1. crab 2. pollute 3. ocean 4. air 5. heron 6. waste 7. bay 8. trash 9. tree 10. recycle



GO FISH



Native Americans made arrowheads to harpoon fish. They also shot fish with bows and arrows with rope on the end of the arrow to pull the fish in. Another fishing tool was a spear.

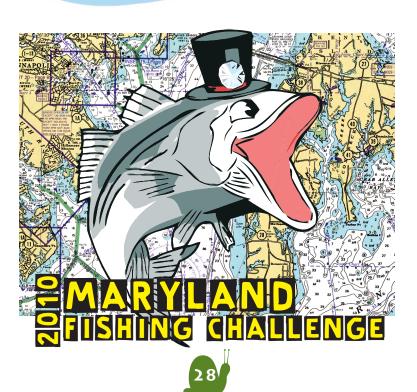
Kids today can enjoy fishing across Maryland.

Bring an adult to license-free fishing on the first two Saturdays in June and July 4th.

Make new friends at "Hooked on Fishing," a DNR summer clinic, and learn about the benefits of enjoying this fun sport.

Take the Maryland Fishing Challenge and win a prize! Kids can fish for over 60 types of fish in Maryland's streams, lakes, the Chesapeake Bay or Atlantic Ocean. So grab a pole and go fish, YOU could be winner!

Learn more at www.dnr.maryland.gov/fisheries











SMART, GREEN AND

How many words can you make from the letters in this phrase?

Be smart and don't throw trash on the ground or in the water. Be green by planting flowers, bushes and trees around your neighborhood. Keep growing your knowledge of your natural resources. Learn more at www.green.maryland.gov







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